



Service Manual

Washing machine

Toploader

WATS 5130

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Family		ALPHA



Global White

Technical data

Dimensions

Height	85	cm
Width	40	cm
Depth	60	cm

Weight

Net weight	~63	kg
With package	~66	kg

Main Connection

Voltage	230	V ± 10%
Frequency	50	Hz
Power consumption	~2.3	kW
Fuse rating	10	A

Drum

Volume	42	l
Wash spin	52	rpm
Speed spinning max.	800	rpm

Capacity of dry laundry

Cotton	5	kg
Cotton short	3	kg
Easy care	2	kg
Daily mixed	3	kg
Easy care short	1.5	kg
Delicate	1.5	kg
Wool	1	kg
Handwash/Silk	1	kg

Pressostat

Kind of switch	1-level pressoswitch
Type	760
Nominal voltage	230 V

Water Level

Level 1 (11 - 12, 14)	
Switching point	65 ± 5 mmWc
Switching back point	40 ± 5 mmWc

Overflow (11 - 16)	300 ± 20 mmWc
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Water level based to drum	60 ± 10 mm
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Nominal currents

Contacts	
11 - 12	0.5 - 1 mA
11 - 14	16 (4) A
11 - 16	1 (1) A

Door lock

Type	BP P/5
Nominal voltage	230 V
Nominal current:	
Contact 4 - 5	16 (4) A
Lock time	≤ 5"
Unlock time	≤ 180"

Heating element

Kind of heating	Tubular heating element with NTC - sensor
Nominal voltage	230 +10%, -15% V
Nominal power	2050 W ± 5%
Resistance (20 °C)	23.9 Ω ± 5%
Thermo-fuse (switch OFF temperature)	152 °C
Leakage current (<99 °C)	<0.8 mA

NTC sensor

Class of protection	II
Resistance NTC :	
0 °C	35.9 kΩ ± 5.8%
30 °C	9.8 kΩ ± 3.7%
40 °C	6.6 kΩ ± 3.1%
50 °C	4.6 kΩ ± 2.6%
60 °C	3.2 kΩ ± 2.0%
70 °C	2.3 kΩ ± 2.5%
95 °C	1.1 kΩ ± 3.7%

Inlet valve

Kind of valve	1-way valve for cold water
Water temperature	<60 °C
Rated flow >1 bar	8 l/min ± 10%
Pressure range	0,2 - 10 bar
Nominal voltage	220 - 240 V
Frequency	50 Hz
Nominal current	0.040 A
Nominal power	8.8 VA ± 10%
Nominal resistance	3.8 kΩ ± 10%

Drain pump (synchronous)

Type	58578
Nominal voltage	230 V
Nominal/max. current	0.3/0.5 A
Nominal power	34 W
Frequency	50 Hz
Resistor (coil) (20 °C)	162 Ω
Capacity (0.55 - 1.0 m)	14 ± 2 l/min
Position of draining hose outlet	min. 0.55 m
	max. 1.0 m

Technical data

Timer

Type	ALPHA 31670006
Timer basic	4619 730 70961
Timer programmed	4619 751 51821
Nominal voltage	230 V
Frequency	50 Hz
Program	32 positions

Motor

Type	MCA 38/64 - 148/ ALB 1
Belt ratio	i = 1:17.3

Resistance contacts (20 °C)

Stator (full field)	2.15	$\Omega \pm 7\%$
Rotor	2.46	$\Omega \pm 7\%$
Tachogenerator	68.7	$\Omega \pm 7\%$

Input power (230 V AC)

Washing	210	W $\pm 7\%$
Rinsing	305	W $\pm 7\%$
Spinning	340	W $\pm 10\%$

Radio interference supression

Rated voltage	90 - 250	V
Rated current	16	A
Frequency	50/60	Hz
Nominal capacity	470 nF X1 + 2 x 22 nF Y	
Resistance	680	$k\Omega \pm 10\%$

Main switch

Type	1DLF1006	
Nominal voltage	250	V
Nominal current	16 (5)	A
Poles	2	
Functionality	Normally opened	

Pilot lamp

Nominal voltage	230	V
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Option switch

Nominal voltage	5	V DC
Nominal current	1	mA
Poles	1	
Functionality	Normally opened	
Connection	RAST 2.5	

Temperature selector switch

Positions	7	
Nominal voltage	5	V DC
Nominal current	1	mA
Poles	1	
Connection	RAST 2.5	
Value of resistors $\pm 5\%$:		
5 - 6	Position 1	<10 Ω
	Position 2	0.68 $k\Omega$
	Position 3	1.10 $k\Omega$
	Position 4	1.80 $k\Omega$
	Position 5	2.70 $k\Omega$
	Position 6	3.60 $k\Omega$
	Position 7	4.70 $k\Omega$

Push button switch

ON/OFF	SM
Eco	OPT. 1
Intensive rinse	OPT. 2
Rinse hold	OPT. 3
Spin reduction	OPT. 4

Spare part list

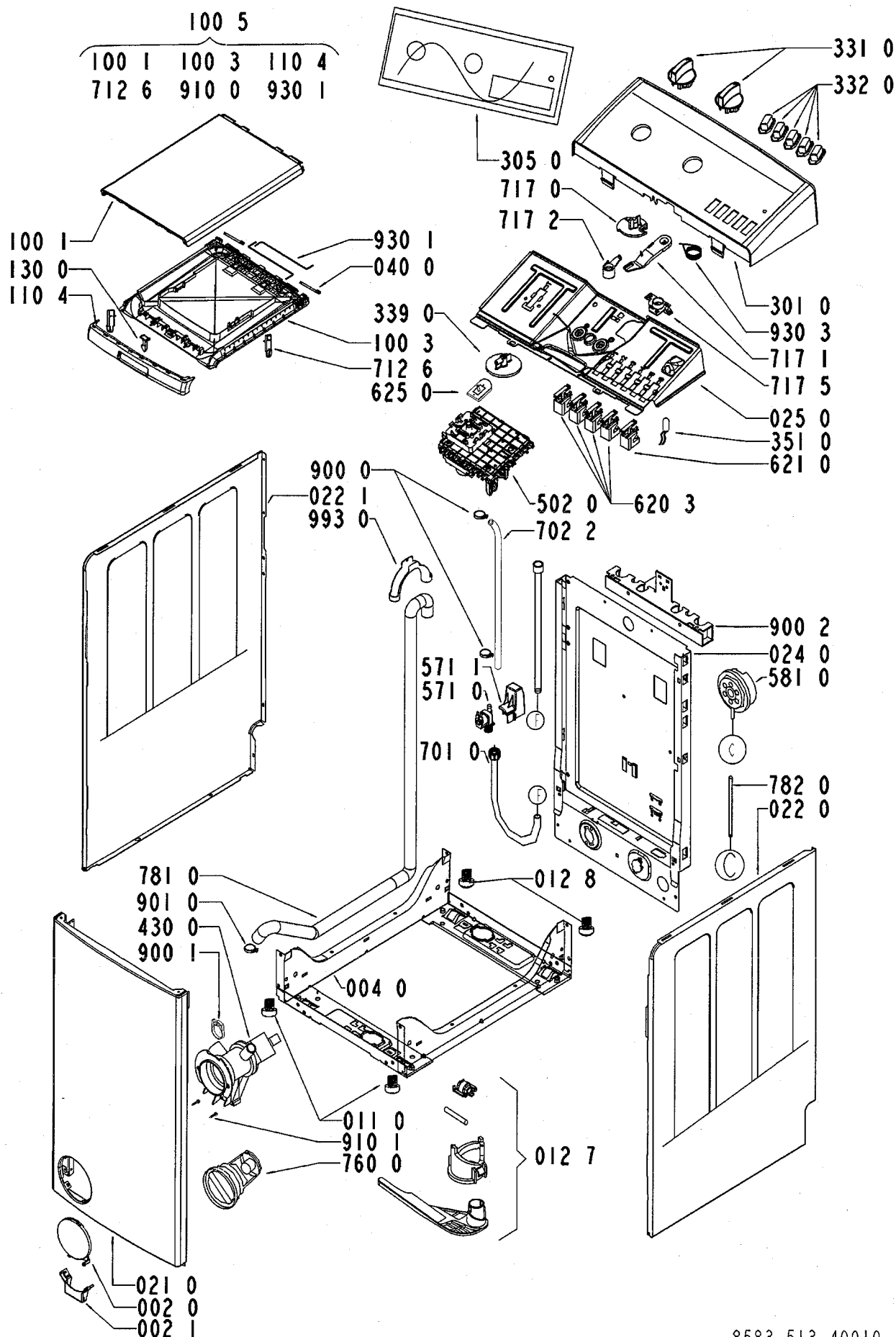
Model
Service No.
Version

WATS 5130
858351340010
858351340010

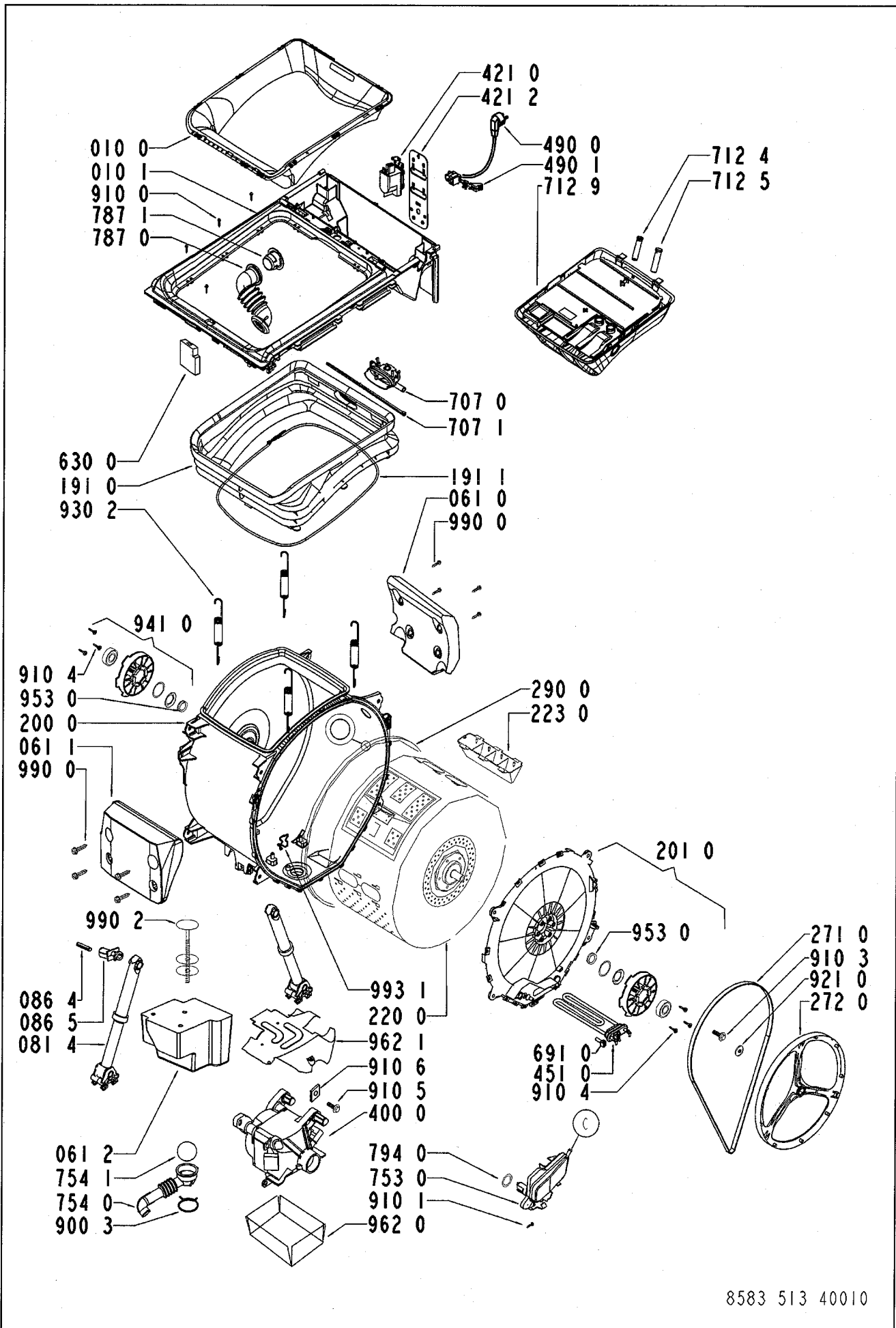
Pos. No.	12NC Code	Description
002 0	4812 459 38056	Flap flat LA/IG/RA GW
002 1	4812 459 38058	Hinge flap GW
004 0	4812 440 19625	Drip tray assy
010 0	4812 459 48175	Door frame inner GW
010 1	4812 440 11053	Frame TOP RFI+nozzle box (kit)
011 0	4812 462 48054	Foot
012 7	4812 310 18497	Trolley kit front
012 8	4812 528 78046	Foot adjustable rear
021 0	4812 440 10837	Front,panel LA/IG/RA GW
022 0	4812 440 10839	Side panel right GW
022 1	4812 440 10841	Side panel left GW
024 0	4812 440 19631	Rear panel
025 0	4812 453 70364	Support f. control BK
040 0	4812 417 19155	Hinge bolt lid GW
061 0	4812 466 88489	Counter weight
061 1	4812 466 88491	Counter weight front
061 2	4812 466 88492	Counter weight bottom
081 4	4812 529 18043	Shock absorber
086 4	4812 529 18045	Pin f. Shock absorber
086 5	4812 529 18052	Damper f. Shock absorber
100 1	4812 440 10842	Lid outer GW
100 3	4812 440 10843	Lid inner GW
100 5	4812 440 10844	Lid assenbly RA GW
110 4	4812 498 18253	Handle cpl. RA GW
130 0	4812 417 19193	Door latch GW
191 0	4812 466 68596	Door bellow
191 1	4812 492 98014	Strap f. bellow
200 0	4812 418 18242	Tub 4fix points
201 0	4812 440 19644	Cover cpl.
220 0	4812 418 18464	Drum 19,5
223 0	4819 418 49713	Drum lifter
271 0	4812 358 18167	Belt Poly V 1204 H8 MA
272 0	4812 528 88083	Pulley 298 mm
290 0	4812 532 68078	Gasket
301 0	4812 452 14301	Control panel WATS 5130
305 0	4812 452 14188	Insert panel Set WATS 5130
331 0	4812 452 12196	Knob BK GW
332 0	4812 410 29027	Button MH BK GW
339 0	4812 413 58947	Adapter Shaft
351 0	4812 134 48317	Pilot lamp
400 0	4812 361 58344	Motor AC2 MCA38
421 0	4812 121 18142	Interf.filter 1,00 µ F
421 2	4812 404 38679	Holder RFI
430 0	4812 360 18529	Pump,draining
451 0	4812 259 28819	Heating element with hole
490 0	4819 321 18136	Cable,mains 2m SA
490 1	4812 321 28367	Strain relief
502 0	4812 282 19713	Timer ALPHA AA2-891/38A
571 0	4812 281 28393	Valve,magnet
571 1	4812 281 18049	Cover f. valve
581 0	4812 271 28526	Pressostat AA65/40ELBI
620 3	4819 410 28998	Switch options
621 0	4819 410 29004	Switch ON/OFF
625 0	4812 273 48002	Selector Temp./Spin
630 0	4812 271 38373	Door lock hybrid

Pos. No.	12NC Code	Description
691 0	4812 282 19485	Sensor NTC SC1
701 0	4819 530 29034	Hose, inlet
702 2	4812 530 28871	Hose VALVE-DISPENSER
707 0	4812 526 48122	Nozzle box cold cpl.
707 1	4812 526 48049	Clamp f. nozzle box
712 4	4812 418 68302	Siphon f. softener
712 5	4812 418 68303	Siphon f. bleach
712 6	4812 418 68164	Clip SOAP DISPENSER
712 9	4812 418 68289	Soap dispenser cpl. 4 ch. GW
717 0	4812 321 38028	Cam ALPHA 4ch metal support
717 1	4812 321 38031	Lever SC1
717 2	4812 323 18021	Lever adjustment (metal)
717 5	4812 323 18025	Support lever metal
753 0	4812 418 68187	Chamber,air
754 0	4812 530 28938	Drainhose
754 1	4812 530 28832	Lock eco
760 0	4812 480 58089	Filter set pump
781 0	4819 530 29035	Hose,draining
782 0	4812 530 28941	Hose Pressostat
787 0	4812 530 29309	Hose Air Exhaust
787 1	4812 530 29311	Cover of hose
794 0	4812 530 58098	Gasket Airtrap
900 0	4819 401 18686	Clamp,hose
900 1	4812 401 18431	Clamp to pump
900 2	4812 401 18461	Support cable/hose
900 3	4819 401 18529	Clamp,hose
901 0	4812 401 18462	Clamp,hose drain hose
910 0	4812 502 48347	Screw,selftap 3,5x14SS
910 1	4812 502 38151	Screw 4x14
910 3	4812 502 18404	Screw
910 4	4812 502 18423	Screw PT 7x15
910 5	4812 502 18401	Screw M8X 35
910 6	4812 502 18399	Nut Push in M 8
921 0	4812 400 18047	Washer
930 1	4812 492 48171	Torsions spring
930 2	4812 492 48162	Spring
930 3	4812 323 18019	Spring f. lever
941 0	4812 310 18578	Bearing Kit
953 0	4812 325 68001	Shaft seal
962 0	4812 440 98142	Cover for Motor AC
962 1	4812 440 98143	Cover for Motor
990 0	4812 310 18504	Fixing mat.set front counter
990 2	4812 310 18506	Fixing mat.set bottom
993 0	4812 530 29269	Bow
993 1	4812 290 18025	Clamp heatingelement

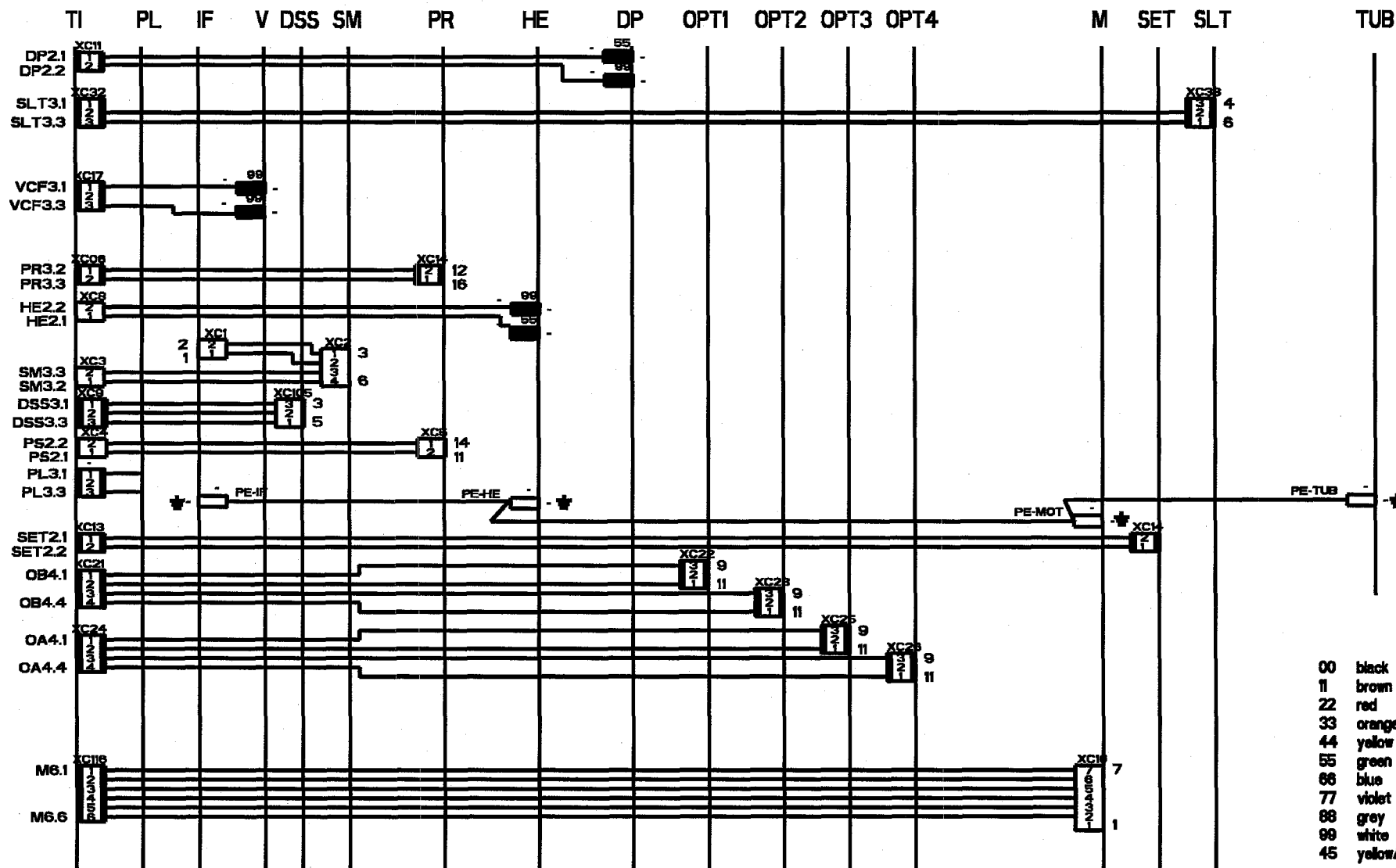
Exploded view



Exploded view



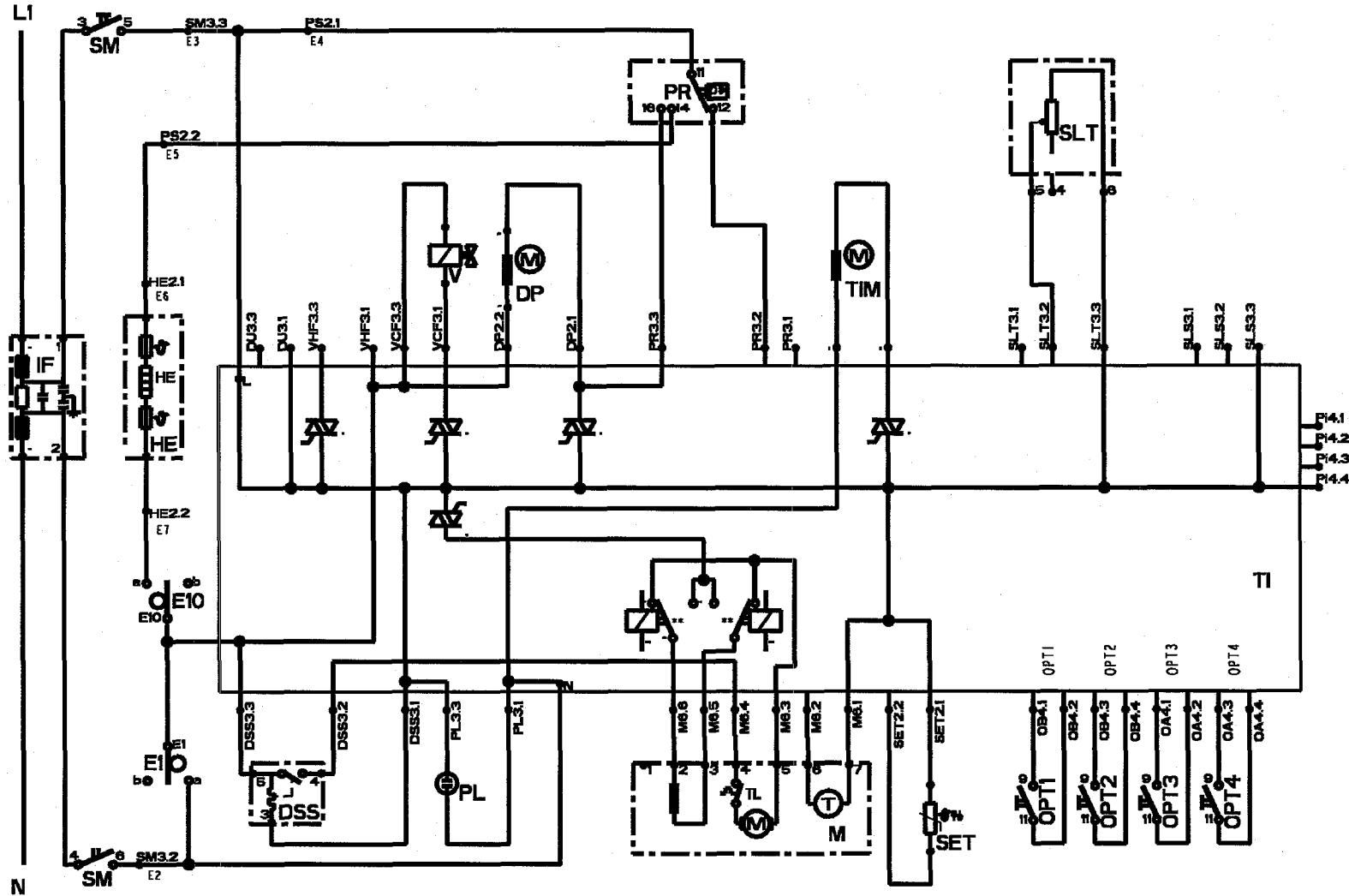
Wiring diagram



4619 752 23231

Circuit diagram

- DP drain pump
- DSS door safety switch
- HE heating element
- IF interference filter
- M motor drive
- OPT switch, options
- PL pilot lamp
- PR pressostat
- SET sensor, temperature
- SLT selector, temperature
- SM switch, mains
- TI timer
- TIM timer motor
- V valve



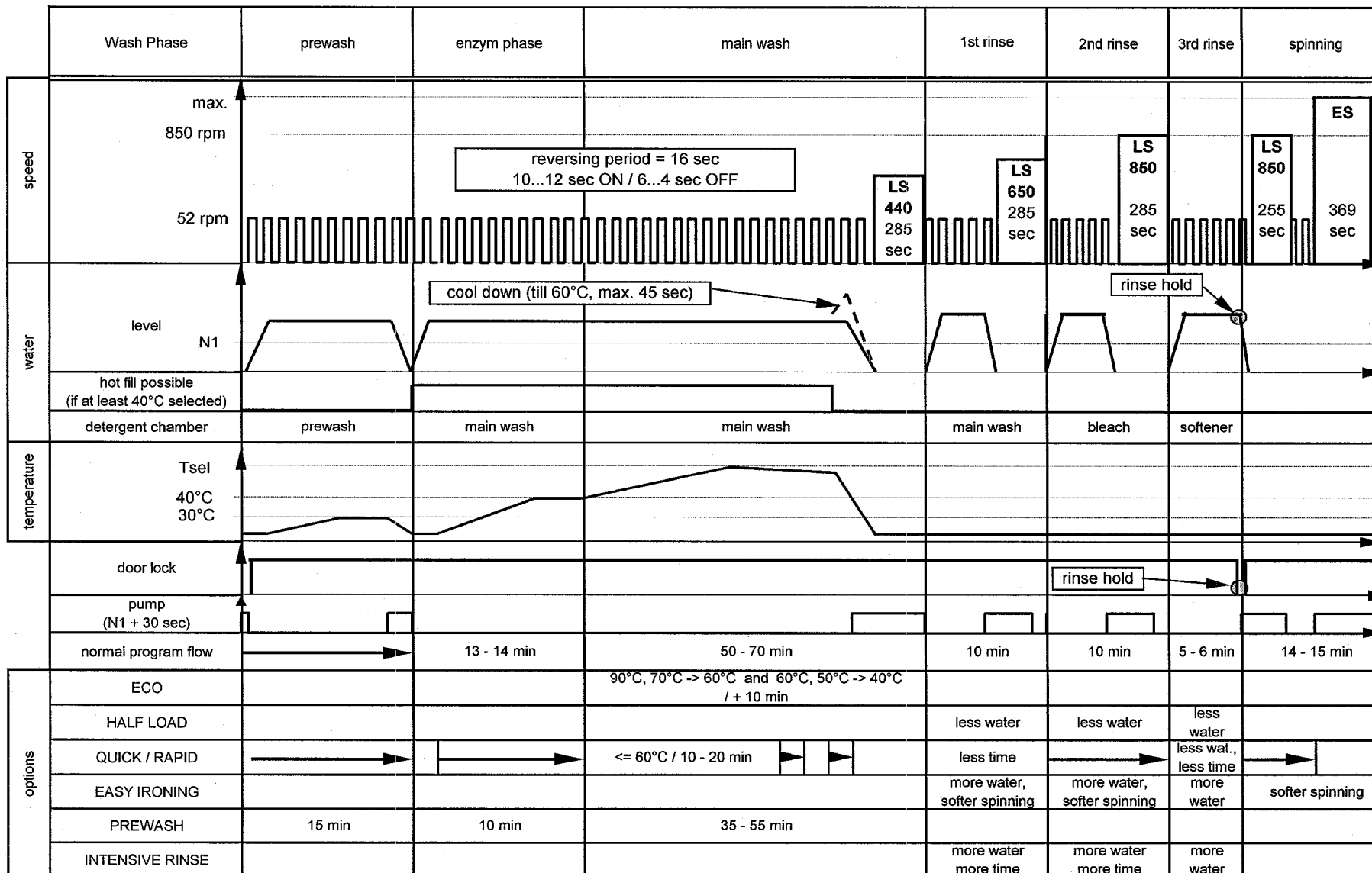
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Program chart

ALLIANCE LR Alpha

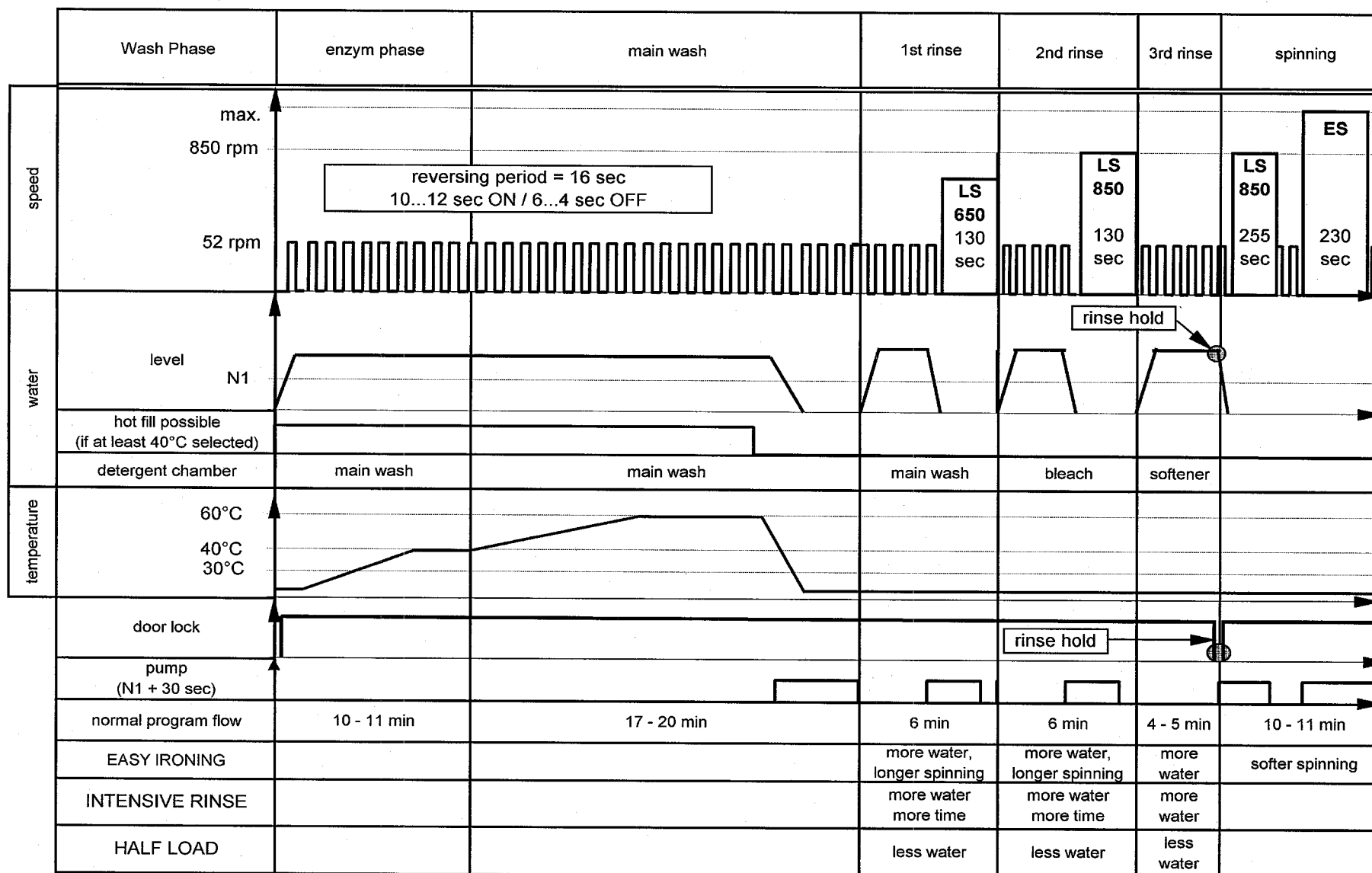
Wash Cycle of COTTON

4619 752 27251



ALLIANCE LR Alpha Wash Cycle of CHRONO

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Program chart

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WATS 5130
8583 513 40010

Whirlpool Europe
Customer Service

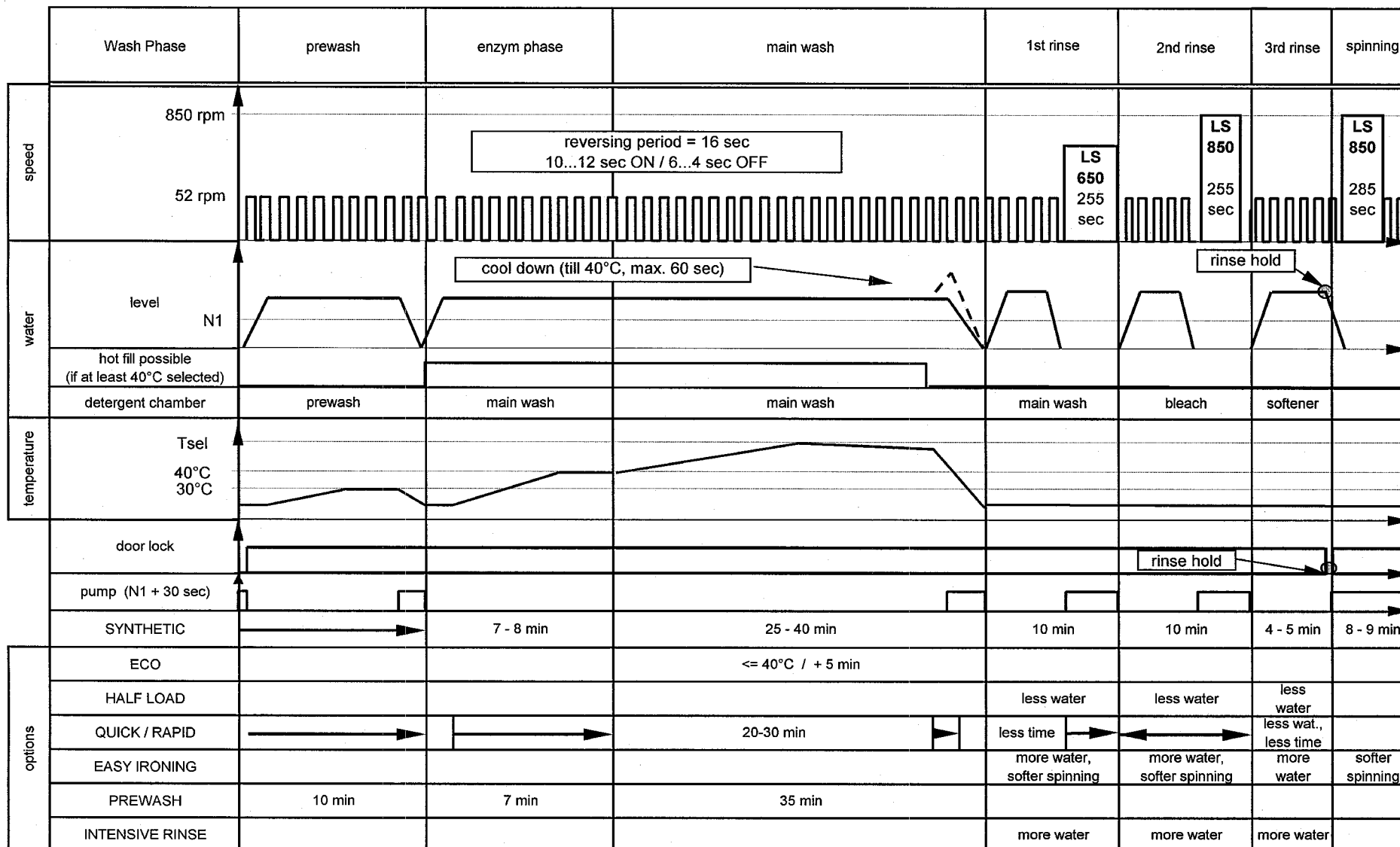
SERVICE

Program chart

ALLIANCE LR Alpha

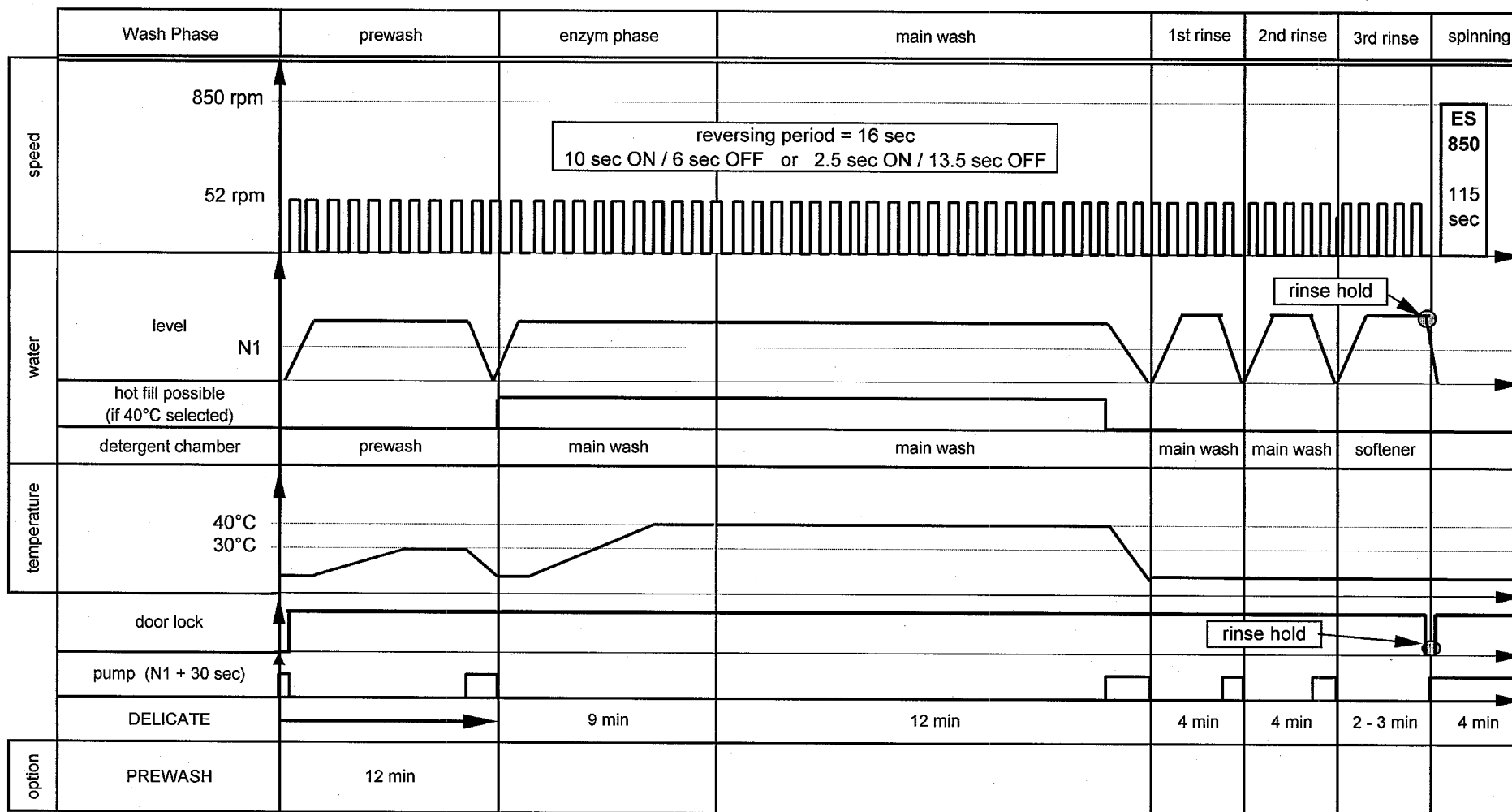
Wash Cycle of SYNTHETIC

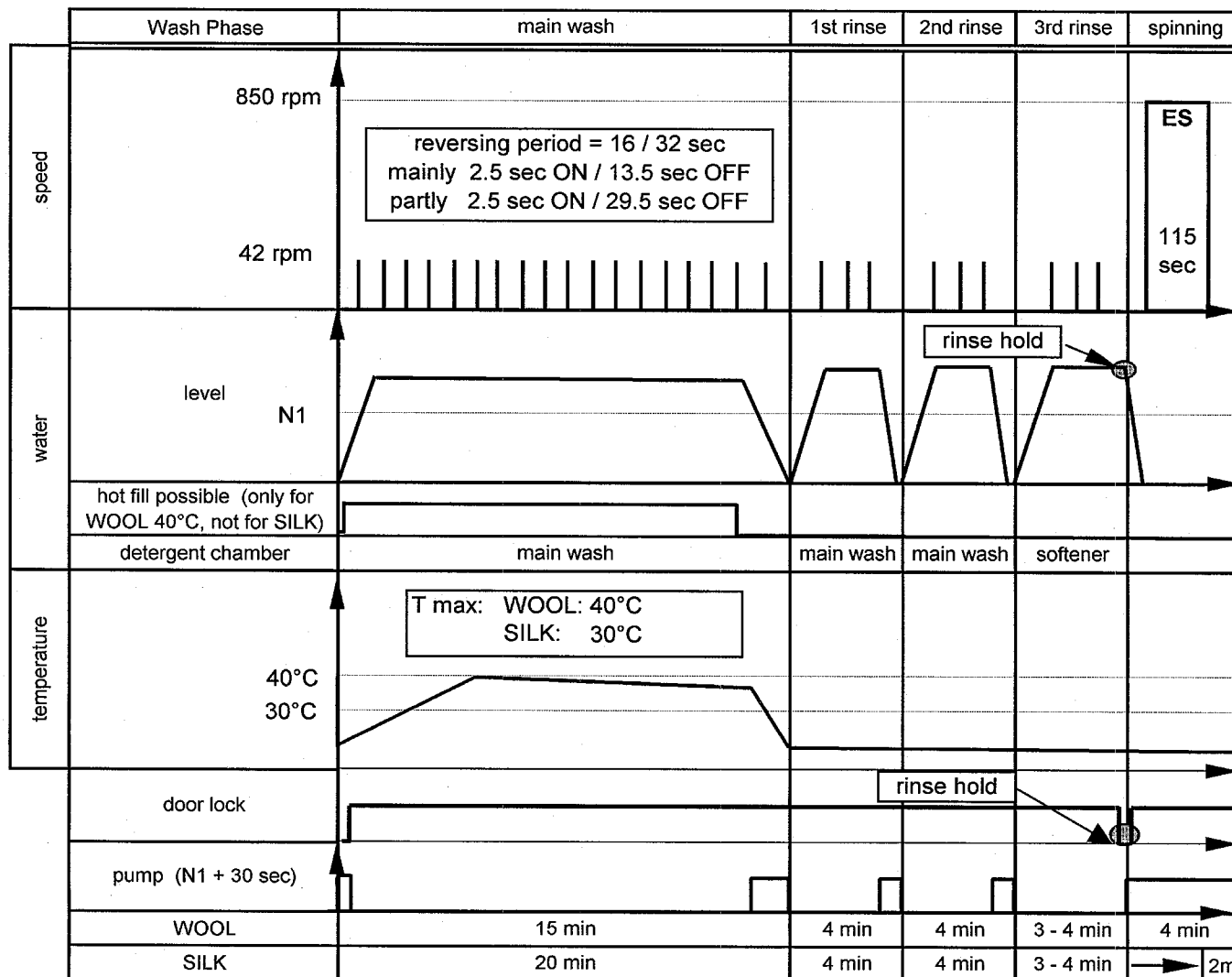
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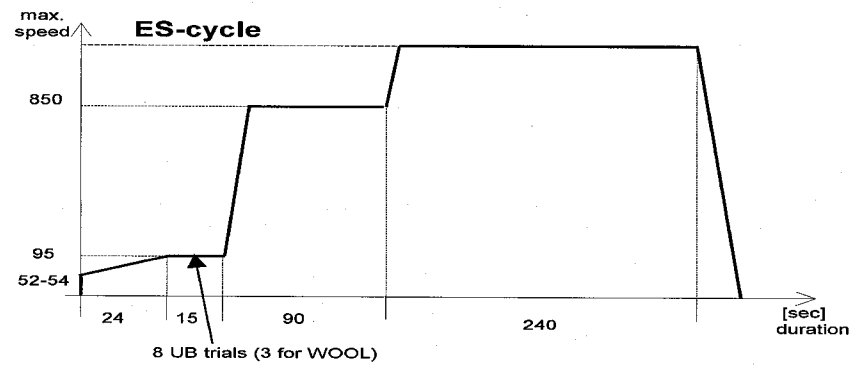
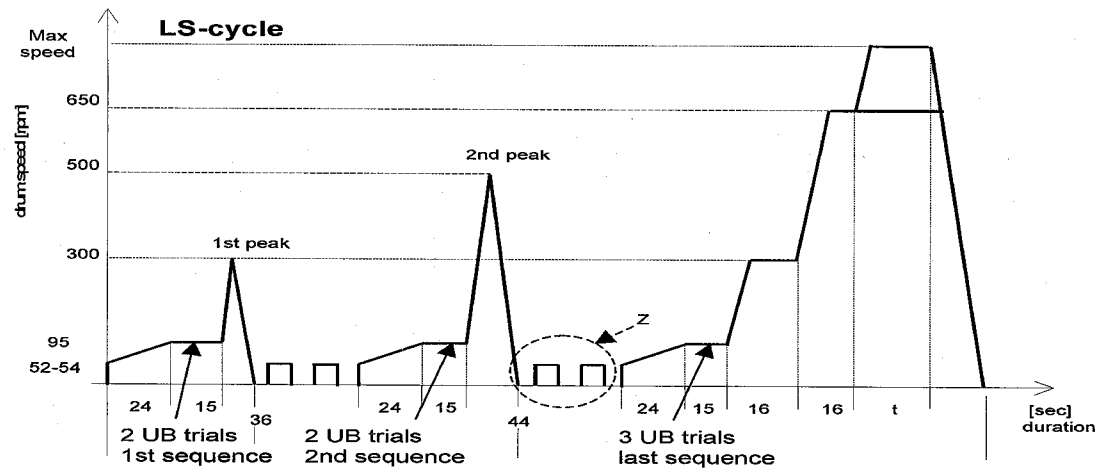


Program chart

ALLIANCE LR Alpha **Wash Cycle of DELICATE** **4619 752 27251**







Detail Z

